Table S3: Sleep characteristics as measured with ORP in normal sleepers and sedated patients with propofol or dexmedetomidine.

Variables	Normal sleepers	Sedation		P value
		Propofol	Dexmedetomidine	
Number of studies	37	12	11	
Number/Direction of Significant Slopes of Log Spectral Power vs. ORP[1]				
Slow Delta: n-, n0, n+	31,6,0	2,9,1*	2,7,2*	<0.0001
Range 2: n-, n0, n+	37,0,0	7,5,0*	7,4,0*	<0.001
Alpha: n-, n0, n+	4,25,8	0,7,5	0,2,9	NS
Beta1: n-, n0, n+	0,0,37	0,0,12	0,0,11	NS
Beta 2: n-, n0, n+	0,0,37	0,1,11	0,0,11	NS
Gamma: n-, n0, n+	0,8,29	0,2,10	0,0,11	NS
# 3-sec. epochs with ORP>1.75 per 30-sec epoch at different Average ORP Values[2]				
Average of 30-sec. ORP				
0.00-0.25	0.00±0.01	0.00±0.00	0.00±0.00	NS
0.25-0.50	0.16±0.05	0.10±0.09	0.07±0.05*	<0.0001
0.50-0.75	0.55±0.10	0.49±0.22	0.35±0.13*	<0.02
0.75-1.00	1.28±0.20	1.02±0.23*	0.85±0.24*	<0.005
1.00-1.25	2.27±0.21	1.89±0.39	1.56±0.34*	<0.0001
1.25-1.50	3.55±0.24	3.09±0.46*	2.64±0.41*	<0.0001
1.50-1.75	5.03±0.26	4.74±0.67	4.20±0.37*	<0.0001
1.75-2.00	6.69±0.31	6.31±0.45	6.14±0.29*	<0.001
2.00-2.25	8.33±0.30	8.09±0.35	8.11±0.33	NS
2.25-2.50	9.77±0.10	9.66±0.23	9.62±0.19	NS
Spindle Density[2]				
# per min	2.3±1.2	0.32±0.37*	0.21±0.36*	<0.0001

Data are mean ± SD. ORP, odds ratio product. n-, n0, n+; number of significant negative, non-significant and significant positive slopes of log spectral power vs. ORP, respectively.

[1]Comparisons of the three groups were made by Chi-test (Fisher exact test) with Bonferroni correction for multiple comparisons.

[2]Comparisons of the three groups were made by one-way analysis of variance (last column), followed by post hoc multiple comparisons (Bonferroni or Games-Howell tests).

*Significantly different from normal sleepers. There was no difference between sedated patients with propofol and dexmedetomidine.